	Application No.	Applicant(s)
Notice of Allowability	10/769,367	HARADA ET AL.
	Examiner	Art Unit
	Felisa C. Hiteshew	1722
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatior GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. X This communication is responsive to the amendment filed of	on June 28, 2006.	
2. The allowed claim(s) is/are 1-18.		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority un</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ul>	been received. been received in Application No	
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	ENT of this application.	
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>	tted. Note the attached EXAMINER is reason(s) why the oath or declara	'S AMENDMENT or NOTICE OF tion is deficient.
5. CORRECTED DRAWINGS ( as "replacement sheets") must	t be submitted.	
(a) including changes required by the Notice of Draftsperso		948) attached
1) hereto or 2) to Paper No./Mail Date	-	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawine header according to 37 CFR 1.121(	ngs in the front (not the back) of d).
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT F</li> </ol>	SIT OF BIOLOGICAL MATERIAL REPORTED THE DEPOSIT OF BIOLOGICA	nust be submitted. Note the AL MATERIAL.
Attachment(s)		
1. Notice of References Cited (PTO-892)	<u> </u>	ratent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Dat	
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date</li> </ol>	8), 7. 🗌 Examiner's Amendr	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material  Output  Description:  Output	8. ⊠ Examiner's Stateme	Pent of Reasons for Allowance  School Hitchian  Felisa C. Hiteshew
		Primary Examiner Art Unit: 1722

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## Allowable Subject Matter

1. The following is a statement of reasons for the indication of allowable subject matter: The most relevant prior arts of reference was that of U.S. Pat No. 5,766,341 A and U.S. Patent No. 5,593,498 A (Kimbel, et al). However, they do not teach nor fairly suggest singularly or in any combination thereof a method of manufacturing a silicon single crystal, comprising rotating a quartz crucible for storing a silicon melt at a specified rotation speed, rotating a silicon single crystal ingot pulled from the silicon melt in an opposite direction to the rotation of the quartz crucible at a specified rotation speed, and pulling the silicon single crystal ingot at a pull rate such that an interior of the silicon single crystal ingot becomes a perfect region in which agglomerates of interstitial silicon point defects and agglomerates of vacancy point defects are absent: wherein an average rotation speed CR<sub>TAV</sub> of the quartz crucible during the pulling of the top ingot portion of the silicon crystal ingot is set faster than an average rotation speed CR<sub>BAV</sub> is set to be within the range of from 0.1 to 7 rpm.

## Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTOL-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Felisa Hiteshew whose telephone number is (571) 272-1463. The examiner can normally be reached on Mondays through Thursday from 5:30 AM to 4:00 PM with Fridays off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra Gupta, can be reached on (571) 272-1316. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-1463.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system. see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866- 217-9197 (toll-free).

FELISA HITESHEW PRIMARY EXAMINER AU 1738